

Bharath Chandra Talluri

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Education

- 2015-Present Ph.D. in Cognitive Neuroscience, **University Medical Center Hamburg-Eppendorf**, Germany
Thesis: Neurobiological basis of sequential bias in decision-making
Advisor: Tobias Donner
- 2012-13 M.Sc. in Cognitive Science, **University of Edinburgh**, UK
Thesis: Characterising the properties of natural and laboratory animal-rearing environments and investigating their impact on models of visual cortex development
Advisor: James Bednar
- 2008-12 B.Tech. in Electrical Engineering, **Indian Institute of Technology (I.I.T) Roorkee**, India
Thesis: Autonomous path planning and control of a simulated wheeled mobile robot using feedback linearisation
Advisor: Gopinath Pillai

Research

Research Interests

Perceptual Decision-Making, Computational Modelling, Computational Neuroimaging (fMRI, MEG), Metacognition

Research Visits

- 2019 Guest Scientist, Prof. John-Dylan Haynes' lab, Berlin Center for Advanced Neuroimaging, and Bernstein Center for Computational Neuroscience, Berlin
- 2016 Guest Scientist, Prof. John-Dylan Haynes' lab, Berlin Center for Advanced Neuroimaging, and Bernstein Center for Computational Neuroscience, Berlin
- 2014-15 Research Intern, Cognitive Neuroscience laboratory, German Primate Center, Goettingen
- 2012-13 Research Assistant, Institute of Perception, Action and Behaviour, University of Edinburgh
- 2011 Research Intern, Institute of Perception, Action and Behaviour, University of Edinburgh

Training

Experimental Techniques: fMRI, Psychophysics using Pupillometry & Eye-tracking

Analysis Techniques: Computational Modelling of behaviour, Multivariate Pattern Analysis of fMRI data

Programming Languages: Matlab, Python, C++

Pre-prints

- **Talluri, B. C.**, Urai, A. E., Bronfman, Z. Z., Brezis, N., Tsetsos, K., Usher, M., Donner, T. H. (2020). Choices change the temporal weighting of decision evidence. bioRxiv, 979690.
doi: 10.1101/2020.03.06.979690.

Original Articles

- **Talluri, B. C.***, Urai, A. E.*, Tsetsos, K., Usher, M., Donner, T. H. (2018). Confirmation bias through selective overweighting of choice-consistent evidence. *Current Biology*. 28(19), 3128-3135. doi: 10.1016/j.cub.2018.07.052.
Commentary: Prat-Ortega, G., de la Rocha, J. (2018). Selective attention: a plausible mechanism underlying confirmation biases. *Current Biology*. 28(19), R1151-R1154. doi: 10.1016/j.cub.2018.08.024.
- **Talluri, B. C.**, Hung, S.-C., Seitz A. R., Series, P. (2015). Confidence-based integrated reweighting model of task-difficulty explains location-based specificity in perceptual learning. *Journal of Vision*. 15(10):17, 1-12. doi: 10.1167/15.10.17.

* equal contribution

Commentaries

- **Talluri, B. C.**, Urai, A. E., Donner, T. H. (2019). Our own choices generate biases for subsequent decisions. *The Science Breaker*. doi: 10.25250/thescbr.brk203.

Conference Abstracts

- Esnaola-Acebes, J. M., **Talluri, B. C.**, Donner, T. H., Roxin, A., Wimmer, K. (2019). Neural network mechanisms underlying Confirmation bias in stimulus estimation. Conference on Cognitive Computational Neuroscience (CCN) at Berlin, Germany. doi: 10.32470/CCN.2019.1209-010.
- Esnaola-Acebes, J. M., Roxin, A., Wimmer, K., **Talluri, B. C.**, Donner, T. H. (2019). Stimulus integration and categorization with bump attractor dynamics. Annual Computational Neuroscience Meeting (CNS) at Barcelona, Spain.
- **Talluri, B. C.***, Urai, A. E.*, Tsetsos, K., Usher, M., Donner, T. H. (2018). Confirmation bias in continuous decisions: Giving more weight to choice-consistent evidence. Poster presented at FENS Forum (*with travel award*) at Berlin, Germany.
- **Talluri, B. C.***, Urai, A. E.*, Tsetsos, K., Bronfman, Z. Z., Brezis, N., Usher, M., Donner, T. H. (2017). Intermittent overt choice alters the temporal weighting of sensory evidence in a continuous visual estimation task. Poster presented at European Conference on Visual Perception at Berlin, Germany.
- Rudiger, P., Stevens, J.-L., **Talluri, B. C.**, Perrinet, L., Bednar, J. (2014). Relationship between natural image statistics and lateral connectivity in the primary visual cortex. Cosyne Abstracts at Salt Lake city, USA.

Other Documents

- Papadimitriou, G., Fisher, R., Shillcock, R., **Talluri, B. C.** (2013). Psychophysics of autostereogram videos: Contrast, Repetition, Blur and Colour, *unpublished manuscript*.

Awards & Honors

- 2019-20 Postdoc transition grant, Deanery for Research, University Medical Center Hamburg-Eppendorf, Germany
- 2019 People's Choice award, Three Minute Thesis (3MT) competition, Hamburg Research Academy, Hamburg, Germany
- 2019 Travel grant, eScience Institute, University of Washington in Seattle, USA
- 2018 Travel award, German Neuroscience Society
- 2016 Travel grant, Boehringer Ingelheim Fonds foundation for basic research in medicine
- 2015 Travel award, Ecole des Neurosciences Paris Ile-de-France
- 2011-12 Member in the Board of studies, I.I.T Roorkee
- 2010-11 Student Affairs Council award, I.I.T Roorkee
- 2009-10 Merit-cum-Means scholarship, I.I.T Roorkee
- 2008-12 A.P.P. Meritorious scholarship, India
- 2008-09 T.I.M.E scholarship for best performance in entrance examination, India
- 2008 All India Rank 965 (99.7 percentile) in the Indian Institutes of Technology Joint Entrance Examination

Talks

- 2019 Gold Lab, University of Pennsylvania, Philadelphia, USA
- 2019 Garrett group, Max Planck Institute for Human Development, Berlin, Germany
- 2018 de la Rocha lab, Institut D'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain
- 2016 Department of Electrical Engineering, I.I.T Roorkee, India
- 2015 Glaescher lab, University Medical Center Hamburg-Eppendorf, Germany
- 2015 Forstmann lab, University of Amsterdam, The Netherlands

Professional Development

- 2019 Neurohackademy (*participation with travel grant*), University of Washington in Seattle, USA
- 2016 Workshop on network modelling using the Virtual Brain, University Medical Center Hamburg-Eppendorf, Germany
- 2015 Workshop on analysis and modulation of brain networks, University Medical Center Hamburg-Eppendorf, Germany
- 2015 Summer school on computational approaches to Memory and Plasticity, National Center for Biological sciences at Bangalore, India

Memberships

- Federation of European Neuroscience Societies
- German Neuroscience Society

Non-Academic achievements

- 2012 Black belt (first dan), awarded by World Taekwondo Federation
- 2012 Convenor-Administration for Department of Electrical Engineering at Cognizance, the annual technical festival of I.I.T Roorkee
- 2011-12 Secretary, Himalayan Explorers' Club, I.I.T Roorkee
- 2011 Coordinator for Department of Electrical Engineering at Cognizance, the annual technical festival of I.I.T Roorkee
- 2010-11 Joint-Secretary, Himalayan Explorers' Club, I.I.T Roorkee
- 2010 Award of Excellence, Himalayan Explorers' Club, I.I.T Roorkee

Last updated: March 24, 2020